
SPACE GATEWAY SUPPORT (SGS)

SGS-08 11 13.00 99 (April 2006)

Preparing Activity: SGS-DE

Superseding SGS-08110J (February 2005)

SGS GUIDE SPECIFICATIONS

References are NOT in Agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags

SECTION TABLE OF CONTENTS

DIVISION 08 - OPENINGS

SECTION 08 11 13.00 99

HOLLOW METAL DOORS AND FRAMES

04/06

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 DESIGN 1.3 SUBMITTALS
- 1.4 WARRANTY

PART 2 PRODUCTS

- 2.1 DOOR
- 2.2 FRAMES
- 2.3 FINISH

PART 3 EXECUTION

- 3.1 INSTALLATION
- 3.2 PROTECTION
- 3.3 CLEANING
- -- End of Section Table of Contents --

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HOLLOW METAL DOORS AND FRAMES 04/06

requirements for hollow metal doors and frames which are designed to capture and retain an attacking projectile.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

PART 1 GENERAL

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this section to the extent referenced:

UL 752

(2000) Bullet-Resisting Equipment

1.2 DESIGN

Through design, manufacturing technique and material application, the door and frame shall be BULLET RESISTANT FIBERGLASS of the "non-ricochet type". This design is intended to permit the capture and retention of an attacking projectile lessening the potential of a random injury or lateral penetration.

The ballistic capturing barrier shall be UL LISTED ARMORTEX Bullet Resistant Fiberglass as manufactured by SAFEGUARD SECURITY SERVICES, LTD. Protection level shall be UL Level 3. Door and Frame shall be in accordance with UL 752. The door and frame must be manufactured by the same firm. Units must be manufactured in strict accordance with specifications, design and details. No field alterations to the construction of the units fabricated under the acceptable standards shall be allowed unless approved by the manufacturer and the Architect. All welds shall be in accordance with the requirements and standard practices of the American Welding Society. All exposed welds shall be ground flush and finished smooth.

1.3 SUBMITTALS

NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office; "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Submittal items not designated with a "G" are

considered as being for information only for Army projects and for Contractor Quality Control approval for Navy, Air Force, and NASA projects.

The following shall be submitted in accordance with Section 01 33 00 "SUBMITTAL PROCEDURES," in sufficient detail to show full compliance with the specification:

SD-03 Product Data

Submit for approval prior to fabrication, VERIFICATION OF UL LISTING OF BULLET RESISTANT FIBERGLASS, catalog cuts, brochures, specifications, size, reinforcement size and locations, details of joints and connections, welding details and printed data in sufficient detail to indicate compliance with the contract documents. Manufacturer's instructions for installation and cleaning of glazing material.

1.4 WARRANTY

All materials and workmanship shall be warranted against defects for a period of one(1) year from date of receipt at job site.

PART 2 PRODUCTS

2.1 DOOR

Bullet resistant hollow metal door shall be of the "non-ricochet type" as shown on the contract drawings and schedules complete with 16 ga. face plates, foamed in place rigid urethane foam and fiberglass core. The 16 ga. rails and stiles are to be welded to face plates and provide a flush surface on all edges. Door unit shall be supplied pre hung with a Continuous Gear Hinge in a steel frame. Door and frame shall be mortised and reinforced at the factory for template hardware in accordance with the approved hardware schedule.

Templates are to be provided to the door manufacturer by the hardware contractor. Drilling and taping for surface mounted hardware shall be performed at the jobsite by the installing contractor. If bullet resistant transparent armor is required for door vision panel, the vision panel shall be furnished by the door manufacturer and be UL listed material of the same ballistic level as the door fiberglass core door and frame. Assembly unit shall be as manufactured by Safeguard Security Services, Ltd., San Antonio, Texas. Phone: (210)661-8306, (800)880-8306 Fax: (210)661-8308.

2.2 FRAMES

Frames shall be a protection level equal to the door. Frame shall be of a "non-ricochet type" design, constructed of 16 ga. commercial grade steel lined with UL Listed Bullet Resistant Fiberglass. Steel shall be free of scale, pitting, coil breaks or other surface defects. Finish work shall be neat and free of defects. Corners shall be continuously welded the full length of the intersection. Knocked down and mechanical joints are unacceptable. All exposed welds shall be ground flush, finished smooth and free of defects. Standard manufacturing tolerances shall be $\pm\ 1/16"$ for frame opening width, height, diagonal dimensions and overall width and height (outside to outside).

2.3 FINISH

Cold rolled steel is factory prime painted gray. The continuous hinge is clear anodized aluminum. Field paint and finish in accordance with and as directed in the Finish Section 9 of these specifications.

PART 3 EXECUTION

3.1 INSTALLATION

In accordance with manufacturer's instructions.

3.2 PROTECTION

It shall be the responsibility of the contractor to see that any scratches or disfigurement caused in shipping or handling of the products are promptly cleaned, touched up, properly stored in a dry location and covered to protect them from damage. Repair damaged units prior to completion and acceptance of the project or replace with new, as directed.

3.3 CLEANING

Upon completion, clean exposed surfaces of door assembly units thoroughly. Remove all smears and other unsightly marks.

-- End of Section --